Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains _____ Pages

Report Nbr: 34705

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05107	I07-021	B1LNF5	J7A310377-1	JNPEH1AA	9JNPEH10	7039543
		B1LNF5	J7A310377-1	JNPEH1AC	9JNPEH10	7039542
	S07-012	B1LCH5	J7B020316-1	JNVW31AA	9JNVW310	7039534
		B1LCD8	J7B020316-2	JNVW71AA	9JNVW710	7039539
		B1LCD8	J7B020316-2	JNVW71AC	9JNVW710	7039534
	S07-001	B1LP81	J7B020323-1	JNV3J1AA	9JNV3J10	7039533
	WO7-001	B1LRH3	J7B020335-1	JNV3N1AA	9JNV3N10	7039532
		B1LRH3	J7B020335-1	JNV3N1AC	9JNV3N10	7039531
	S07-001	B1LP41	J7B020339-1	JNV4G1AA	9JNV4G10	7039533
		B1LP41	J7B020339-1	JNV4G1AC	9JNV4G10	7039528
		B1LNP3	J7B020339-2	JNV4K1AA	9JNV4K10	7039528
		B1LP03	J7B050132-1	JNXLQ1AA	9JNXLQ10	7039543
		B1LP09	J7B050132-2	JNXLR1AA	9JNXLR10	7039532
		B1LP09	J7B050132-2	JNXLR1AC	9JNXLR10	7039531
		B1LP09	J7B050132-2	JNXLR1AD	9JNXLR10	7039527

Comments:

Report Nbr: 34705

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05107	S07-001	B1LP09	J7B050132-2	JNXLR1AE	9JNXLR10	7039543
		B1LP09	J7B050132-2	JNXLR1AF	9JNXLR10	7039545
		B1LP09	J7B050132-2	JNXLR1AG	9JNXLR10	7039542
		B1LP09	J7B050132-2	JNXLR1AH	9JNXLR10	7039528
		B1LP14	J7B050132-3	JNXMG1AA	9JNXMG10	7039527
		B1LP14	J7B050132-3	JNXMG1AC	9JNXMG10	7039543
		B1LP14	J7B050132-3	JNXMG1AD	9JNXMG10	7039545
		B1LP14	J7B050132-3	JNXMG1AE	9JNXMG10	7039542
		B1LP14	J7B050132-3	JNXMG1AF	9JNXMG10	7039528
	S07-010	B1KPK0	J7B050153-1	JNXNQ1AA	9JNXNQ10	7039533
	S07-001	B1LP57	J7B050154-1	JNXNT1AA	9JNXNT10	7039533
		B1LP58	J7B050154-2	JNXN01AA	9JNXN010	7039533
		B1LPF9	J7B050154-3	JNXN21AA	9JNXN210	7039533
		B1LPF9	J7B050154-3	JNXN21AC	9JNXN210	7039543
		B1LPD1	J7B050154-4	JNXN31AA	9JNXN310	7039533
		B1LP93	J7B050158-1	JNXPG1AA	9JNXPG10	7039533
		B1LP93	J7B050158-1	JNXPG1AC	9JNXPG10	7039543
		B1LP84	J7B050158-2	JNXPQ1AA	9JNXPQ10	7039533
		B1LP84	J7B050158-2	JNXPQ1AC	9JNXPQ10	7039543
		B1LP66	J7B050158-3	JNXPW1AA	9JNXPW10	7039533
		B1LP66	J7B050158-3	JNXPW1AC	9JNXPW10	7039543
	S07-012	B1LC48	J7B050162-1	JNXRL1AA	9JNXRL10	7039543
	S07-001	B1LPC1	J7B050163-1	JNXR01AA	9JNXR010	7039533
		B1LPC1	J7B050163-1	JNXR01AC	9JNXR010	7039543

Comments:

SEVERN TRENT STL

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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 19, 2007

Attention: Dot Stewart

SAF Number	:	W07-001, S07-001, S07-012, S07-010, I07-021
Date SDG Closed	:	February 2, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05107
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 30, 2007 and January 31, 2007, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1LNF5	JNPEH	WATER	1/31/07
B1LCH5	JNVW3	WATER	2/1/07
B1LCD8	JNVW7	WATER	2/1/07
B1LP81	JNV3J	WATER	2/1/07
B1LRH3	JNV3N	WATER	2/1/07
B1LP41	JNV4G	WATER	2/1/07
B1LNP3	JNV4R	WATER	2/1/07
B1LP03	JNXL9	WATER	2/1/07
B1LP09	JNXLR	WATER	2/1/07
B1LP14	JNXMG	WATER	2/1/07
B1KPK0	JNXNQ	WATER	2/1/07
B1LP57	JNXNT	WATER	2/2/07
B1LP58	JNXN0	WATER	2/2/07

B1LPF9	JNXN2	WATER	2/2/07
B1LPD1	JNXN3	WATER	2/2/07
B1LP93	JNXPG	WATER	2/2/07
B1LP84	JNXPG	WATER	2/2/07
B1LP66	JNXPW	WATER	2/2/07
B1LC48	JNXRL	WATER	2/2/07
B1LPC1	JNXR0	WATER	2/2/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in. Sample B1LHB1 had a coliform requested on it. It was missed in sample receiving and not given to the analyst before the holding time was up.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RICH-RC-5010
Uranium 234, 235 and 238 by method RICH-RC-5039
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Plutonium-238, -239/240 by method RICH-RC-5010
The LCS, batch blank, samples and sample duplicate (B1LP14) results are within contractual requirements.

Uranium 234, 235 and 238 by method RICH-RC-5039
The LCS, batch blank, samples and sample duplicate (B1LCD8) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
There was an obvious blank LCS switch. The error was corrected in RadCalc. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LRH3) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1LP09) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1LP09) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1LP09) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
In the original analysis the LCS had a low recovery. It was recounted with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LC48) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1LP14), and sample matrix spike (B1LP09) results are within contractual requirements.

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March 19, 2007

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1LPC1) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1LCD8), and sample matrix spike (B1LCH5) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty.* The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34705 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNPEH10	B1LNF5		MW6-SBB-A1	I07-021	W05107					01/31/2007 09:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039543	I-129L	15046-84-1	3.24E-03	pCi/L	1.4E-01	1.4E-01	U	2.58E-01	98.4	I129LL_SEP_LEPS	3.9415E+00	L	02/26/2007 16:31	I
7039542	SR-90	10098-97-2	1.48E-02	pCi/L	1.0E-01	2.4E-01	U	5.19E-01	85.7	SRISO_SEP_PRE	1.0006E+00	L	02/28/2007 06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNV3J10	B1LP81		MW6-SBB-A1	S07-001	W05107					02/01/2007 10:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	4.89E+04	pCi/L	7.2E+02	2.0E+03		3.03E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 01:48	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNV3N10	B1LRH3		MW6-SBB-A1	WO7-001	W05107					02/01/2007 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039532	ALPHA	12587-46-1	1.94E+00	pCi/L	1.2E+00	1.2E+00		1.30E+00	100.0	9310_ALPHABETA	2.004E-01	L	02/26/2007 20:04	I
7039531	BETA	12587-47-2	7.36E+00	pCi/L	1.8E+00	2.0E+00		2.95E+00	100.0	9310_ALPHABETA	2.014E-01	L	02/26/2007 20:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNV4G10	B1LP41		MW6-SBB-A1	S07-001	W05107					02/01/2007 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	7.41E+03	pCi/L	3.0E+02	4.4E+02		3.04E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 03:10	I
7039528	TC-99	14133-76-7	1.59E+02	pCi/L	7.9E+00	1.7E+01		9.86E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	02/20/2007 10:37	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNV4K10	B1LNP3		MW6-SBB-A1	S07-001	W05107					02/01/2007 10:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039528	TC-99	14133-76-7	4.21E+00	pCi/L	4.3E+00	6.4E+00	U	9.99E+00	100.0	TC99_ETVDSK_LS	1.245E-01	L	02/20/2007 10:37	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNVW310	B1LCH5		MW6-SBB-A1	S07-012	W05107					02/01/2007 12:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039534	Uranium	7440-61-1	1.11E+02	ug/L	1.4E+01	1.4E+01		7.88E-02		UTOT_KPA	2.66E-02	ML	02/28/2007 16:38	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9JNVW710 B1LCD8 MW6-SBB-A1 S07-012 W05107 02/01/2007 12:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039539	U-234	13966-29-5	2.72E+01	pCi/L	2.0E+00	5.0E+00		1.70E-01	92.3	UISO_PLATE_AEA	2.015E-01	L	02/23/2007 18:55	I
7039539	U-235	15117-96-1	9.92E-01	pCi/L	3.8E-01	4.1E-01		1.70E-01	92.3	UISO_PLATE_AEA	2.015E-01	L	02/23/2007 18:55	I
7039539	U-238	U-238	2.56E+01	pCi/L	1.9E+00	4.7E+00		1.70E-01	92.3	UISO_PLATE_AEA	2.015E-01	L	02/23/2007 18:55	I
7039534	Uranium	7440-61-1	7.02E+01	ug/L	8.5E+00	8.5E+00		8.25E-02		UTOT_KPA	2.54E-02	ML	02/28/2007 16:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXLQ10	B1LP03		MW6-SBB-A1	S07-001	W05107					02/01/2007 12:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039543	I-129L	15046-84-1	4.51E-02	pCi/L	1.2E-01	1.2E-01	U	2.32E-01	99.5	I129LL_SEP_LEPS	3.8987E+00	L	02/26/2007 16:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXLR10	B1LP09		MW6-SBB-A1	S07-001	W05107					02/01/2007 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039532	ALPHA	12587-46-1	4.24E+00	pCi/L	1.9E+00	2.2E+00		1.74E+00	100.0	9310_ALPHABETA	2.034E-01	L	02/26/2007 20:04	I
7039531	BETA	12587-47-2	3.84E+01	pCi/L	3.1E+00	5.8E+00		2.80E+00	100.0	9310_ALPHABETA	2.001E-01	L	02/26/2007 20:25	I
7039527	BE-7	13966-02-4	9.03E+00	pCi/L	2.2E+01	2.2E+01	U	4.27E+01		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	CO-60	10198-40-0	1.78E+00	pCi/L	2.5E+00	2.5E+00	U	5.64E+00		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	CS-134	13967-70-9	-1.30E-01	pCi/L	2.5E+00	2.5E+00	U	4.68E+00		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	CS-137	10045-97-3	8.68E-01	pCi/L	2.4E+00	2.4E+00	U	4.65E+00		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	EU-152	14683-23-9	-2.13E+00	pCi/L	6.1E+00	6.1E+00	U	1.07E+01		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	EU-154	15585-10-1	-2.64E+00	pCi/L	7.9E+00	7.9E+00	U	1.44E+01		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	EU-155	14391-16-3	-2.45E+00	pCi/L	4.7E+00	4.7E+00	U	7.92E+00		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	K-40	13966-00-2	-1.08E+00	pCi/L	4.8E+01	4.8E+01	U	1.10E+02		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	RU-106	13967-48-1	-1.48E+01	pCi/L	2.3E+01	2.3E+01	U	3.85E+01		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039527	SB-125	14234-35-6	3.73E+00	pCi/L	5.1E+00	5.1E+00	U	1.02E+01		GAMMALL_GS	1.9562E+00	L	02/22/2007 08:43	I
7039543	I-129L	15046-84-1	1.38E+00	pCi/L	3.5E-01	3.5E-01		2.57E-01	91.6	I129LL_SEP_LEPS	3.9082E+00	L	02/26/2007 18:17	I
7039545	PU-238	13981-16-3	5.07E-02	pCi/L	1.8E-01	1.8E-01	U	4.77E-01	38.6	PUISO_PLATE_AE	1.997E-01	L	02/20/2007 18:39	I
7039545	PU-239	PU-239/240	8.44E-02	pCi/L	1.7E-01	1.7E-01	U	4.04E-01	38.6	PUISO_PLATE_AE	1.997E-01	L	02/20/2007 18:39	I
7039542	SR-90	10098-97-2	-2.94E-02	pCi/L	2.1E-01	2.1E-01	U	4.60E-01	97.1	SRISO_SEP_PRE	1.008E+00	L	02/28/2007 06:50	I
7039528	TC-99	14133-76-7	1.04E+02	pCi/L	6.9E+00	1.3E+01		9.85E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	02/20/2007 10:37	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34705 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXMG10	B1LP14		MW6-SBB-A1	S07-001	W05107					02/01/2007 10:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039527	BE-7	13966-02-4	-2.87E+00	pCi/L	1.7E+01	1.7E+01	U	3.14E+01		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	CO-60	10198-40-0	-5.98E-01	pCi/L	1.6E+00	1.6E+00	U	2.93E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	CS-134	13967-70-9	1.06E+00	pCi/L	2.2E+00	2.2E+00	U	4.41E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	CS-137	10045-97-3	1.12E+01	pCi/L	4.5E+00	4.5E+00		3.05E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	EU-152	14683-23-9	-4.57E+00	pCi/L	5.0E+00	5.0E+00	U	8.04E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	EU-154	15585-10-1	-2.70E-01	pCi/L	4.7E+00	4.7E+00	U	9.45E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	EU-155	14391-16-3	6.94E-01	pCi/L	3.3E+00	3.3E+00	U	6.07E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	K-40	13966-00-2	1.39E+01	pCi/L	3.0E+01	3.0E+01	U	6.86E+01		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	RU-106	13967-48-1	-2.14E+01	pCi/L	1.8E+01	1.8E+01	U	2.71E+01		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039527	SB-125	14234-35-6	-3.55E+00	pCi/L	4.7E+00	4.7E+00	U	7.65E+00		GAMMALL_GS	2.0077E+00	L	02/22/2007 08:48	I
7039543	I-129L	15046-84-1	7.75E-01	pCi/L	2.8E-01	2.8E-01	U	4.18E-01	98.4	I129LL_SEP_LEPS	3.9258E+00	L	02/26/2007 18:18	I
7039545	PU-238	13981-16-3	0.00E+00	pCi/L	9.7E-02	9.7E-02	U	2.28E-01	68.0	PUISO_PLATE_AE	2.036E-01	L	02/20/2007 18:39	I
7039545	PU-239	PU-239/240	2.85E-02	pCi/L	9.9E-02	9.9E-02	U	2.69E-01	68.0	PUISO_PLATE_AE	2.036E-01	L	02/20/2007 18:39	I
7039542	SR-90	10098-97-2	5.47E-02	pCi/L	1.9E-01	2.1E-01	U	4.46E-01	93.0	SRISO_SEP_PRE	1.0065E+00	L	02/28/2007 06:51	I
7039528	TC-99	14133-76-7	2.13E+02	pCi/L	8.9E+00	2.0E+01		9.84E+00	100.0	TC99_ETVDSK_LS	1.257E-01	L	02/20/2007 10:37	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXN010	B1LP58		MW6-SBB-A1	S07-001	W05107					02/02/2007 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	-2.46E+01	pCi/L	1.2E+02	1.4E+02	U	3.02E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 07:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXN210	B1LPF9		MW6-SBB-A1	S07-001	W05107					02/02/2007 09:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	2.85E+03	pCi/L	2.1E+02	2.6E+02		3.03E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 08:37	I
7039543	I-129L	15046-84-1	1.78E-01	pCi/L	1.2E-01	1.2E-01	U	2.66E-01	99.5	I129LL_SEP_LEPS	3.9046E+00	L	02/26/2007 18:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXN310	B1LPD1		MW6-SBB-A1	S07-001	W05107					02/02/2007 12:07

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34705 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	-1.94E+01	pCi/L	1.2E+02	1.4E+02	U	3.04E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 09:59	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXNQ10	B1KPK0		MW6-SBB-A1	S07-010	W05107					02/01/2007 09:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	-1.08E+02	pCi/L	1.2E+02	1.4E+02	U	3.04E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 04:32	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXNT10	B1LP57		MW6-SBB-A1	S07-001	W05107					02/02/2007 08:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	-2.39E+01	pCi/L	1.2E+02	1.4E+02	U	3.02E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 05:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXPG10	B1LP93		MW6-SBB-A1	S07-001	W05107					02/02/2007 08:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	8.71E+04	pCi/L	9.5E+02	3.4E+03		3.04E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 11:20	I
7039543	I-129L	15046-84-1	1.22E-01	pCi/L	1.7E-01	1.7E-01	U	3.33E-01	96.8	I129LL_SEP_LEPS	3.8771E+00	L	02/26/2007 20:02	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXPQ10	B1LP84		MW6-SBB-A1	S07-001	W05107					02/02/2007 09:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	8.11E+04	pCi/L	9.2E+02	3.2E+03		3.02E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 12:42	I
7039543	I-129L	15046-84-1	1.73E+00	pCi/L	4.5E-01	4.5E-01		2.66E-01	99.7	I129LL_SEP_LEPS	3.8513E+00	L	02/26/2007 20:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXPW10	B1LP66		MW6-SBB-A1	S07-001	W05107					02/02/2007 10:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	6.27E+04	pCi/L	8.1E+02	2.5E+03		3.03E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 18:09	I
7039543	I-129L	15046-84-1	3.17E+00	pCi/L	5.1E-01	5.1E-01		3.03E-01	98.6	I129LL_SEP_LEPS	3.8722E+00	L	02/26/2007 20:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXR010	B1LPC1		MW6-SBB-A1	S07-001	W05107					02/02/2007 10:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039533	H-3	10028-17-8	4.83E+04	pCi/L	7.1E+02	2.0E+03		3.03E+02	100.0	906.0_H3_LSC	5.00E-03	L	02/22/2007 19:31	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

7039543	I-129L	15046-84-1	2.53E+00	pCi/L	5.0E-01	5.0E-01		2.73E-01	97.6	I129LL_SEP_LEPS	3.9351E+00	L	02/26/2007 22:27	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JNXRL10	B1LC48		MW6-SBB-A1	S07-012	W05107					02/02/2007 11:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039543	I-129L	15046-84-1	4.55E-02	pCi/L	1.3E-01	1.3E-01	U	2.59E-01	99.2	I129LL_SEP_LEPS	3.8216E+00	L	02/26/2007 22:25	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6D21AB	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039528	TC-99	-1.49E-01	pCi/L	6.1E+00	U	9.89E+00	100.0		TC99_ETVDSK	1.261E-01	02/20/2007				D
BLK	14133-76-7			4.1E+00						L	10:37				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6D61AB	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039531	BETA	8.76E-01	pCi/L	1.2E+00	U	2.49E+00	100.0		9310_ALPHAB	2.016E-01	02/26/2007				D
BLK	12587-47-2			1.2E+00						L	20:25				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JN6DR1AB **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 09:01

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039527	BE-7	-9.14E+00	pCi/L	2.0E+01	U	3.45E+01			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	13966-02-4			2.0E+01						L	08:49				
7039527	CO-60	-1.36E+00	pCi/L	2.8E+00	U	4.77E+00			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	10198-40-0			2.8E+00						L	08:49				
7039527	CS-134	-1.62E+00	pCi/L	2.4E+00	U	4.05E+00			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	13967-70-9			2.4E+00						L	08:49				
7039527	CS-137	4.62E-01	pCi/L	2.4E+00	U	4.58E+00			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	10045-97-3			2.4E+00						L	08:49				
7039527	EU-152	-9.56E-01	pCi/L	5.6E+00	U	1.00E+01			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	14683-23-9			5.6E+00						L	08:49				
7039527	EU-154	1.29E+00	pCi/L	6.6E+00	U	1.35E+01			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	15585-10-1			6.6E+00						L	08:49				
7039527	EU-155	1.33E+00	pCi/L	5.1E+00	U	9.43E+00			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	14391-16-3			5.1E+00						L	08:49				
7039527	K-40	-3.81E+01	pCi/L	5.4E+01	U	1.21E+02			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	13966-00-2			5.4E+01						L	08:49				
7039527	RU-106	-1.57E+01	pCi/L	2.1E+01	U	3.32E+01			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	13967-48-1			2.1E+01						L	08:49				
7039527	SB-125	3.61E+00	pCi/L	5.8E+00	U	1.11E+01			GAMMALL_GS	1.995E+00	02/22/2007				D
BLK	14234-35-6			5.8E+00						L	08:49				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6E81AB	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039539	U-234	2.93E-02	pCi/L	7.5E-02	U	1.76E-01	89.4		UISO_PLATE_	2.012E-01	02/23/2007				D
BLK	13966-29-5			7.5E-02						L	22:47				
7039539	U-235	3.67E-02	pCi/L	7.5E-02	U	1.76E-01	89.4		UISO_PLATE_	2.012E-01	02/23/2007				D
BLK	15117-96-1			7.5E-02						L	22:47				
7039539	U-238	0.00E+00	pCi/L	7.5E-02	U	1.76E-01	89.4		UISO_PLATE_	2.012E-01	02/23/2007				D
BLK	U-238			7.5E-02						L	22:47				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JN6EA1AB **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 12:16

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039532	ALPHA	5.15E-02	pCi/L	3.0E-01	U	8.65E-01	100.0		9310_ALPHAB	1.993E-01	02/26/2007				D
BLK	12587-46-1			3.0E-01						L	21:12				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6ED1AB	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/02/2007 10:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039533	H-3	6.97E+01	pCi/L	1.4E+02	U	3.04E+02	100.0		906.0_H3_LSC	5.00E-03	02/21/2007				D
BLK	10028-17-8			1.3E+02						L	23:04				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6ED1DX	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/02/2007 10:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039533	H-3	3.38E+01	pCi/L	1.4E+02	U	3.05E+02	100.0		906.0_H3_LSC	5.00E-03	02/22/2007				D
BLK	10028-17-8			1.3E+02						L	15:25				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6EX1AB	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:**	02/01/2007 12:52	
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**		
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:**	02/01/2007	

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039534	Uranium	0.00E+00	ug/L	0.0E+00	U	2.10E-01			UTOT_KPA	2.50E-02	02/28/2007				D
BLK	7440-61-1			0.0E+00						ML	16:31				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JN6FA1AB **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 09:01

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039542	SR-90	7.41E-02	pCi/L	2.3E-01	U	4.95E-01	87.3		SRISO_SEP_P	1.0005E+00	02/28/2007				D
BLK	10098-97-2			1.8E-01						L	06:51				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JN6FC1AB **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/02/2007 11:52

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039543	I-129L	9.71E-03	pCi/L	1.1E-01	U	2.09E-01	96.2		I129LL_SEP_L	3.997E+00	02/27/2007				D
BLK	15046-84-1			1.1E-01						L	05:14				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JN6FE1AB **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 10:15

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BQ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039545	PU-238	0.00E+00	pCi/L	1.2E-01	U	2.77E-01	59.6		PUISO_PLATE	2.002E-01	02/20/2007				D
BLK	13981-16-3			1.2E-01						L	18:40				
7039545	PU-239	-1.16E-02	pCi/L	1.2E-01	U	2.77E-01	59.6		PUISO_PLATE	2.002E-01	02/20/2007				D
BLK	PU-239/240			1.2E-01						L	18:40				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6D21CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039528	TC-99	5.15E+02	pCi/L	4.1E+01		9.79E+00	100.0	5.41E+02	TC99_ETVDSK	1.261E-01	02/20/2007			75	D
BS	14133-76-7			1.3E+01				95.2		L	10:38			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6D61CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039531	BETA	2.20E+01	pCi/L	3.7E+00		2.53E+00	100.0	2.27E+01	9310_ALPHAB	2.006E-01	02/26/2007			70	D
BS	12587-47-2			2.3E+00				97.2		L	20:25			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6DR1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039527	CO-60	3.56E+01	pCi/L	7.7E+00		4.68E+00		3.82E+01	GAMMALL_GS	2.0015E+00	02/22/2007			75	D
BS	10198-40-0			7.7E+00				93.1		L	08:49			125	
7039527	CS-137	2.70E+01	pCi/L	7.1E+00		5.06E+00		2.49E+01	GAMMALL_GS	2.0015E+00	02/22/2007			70	D
BS	10045-97-3			7.1E+00				108.7		L	08:49			130	
7039527	EU-152	6.20E+01	pCi/L	1.7E+01	U	2.52E+01		7.70E+01	GAMMALL_GS	2.0015E+00	02/22/2007			70	D
BS	14683-23-9			1.7E+01				80.5		L	08:49			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6E81CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039539	U-234	9.15E+00	pCi/L	1.9E+00		1.58E-01	99.6	8.64E+00	UISO_PLATE_	2.001E-01	02/23/2007			75	D
BS	13966-29-5			1.1E+00				105.9		L	22:47			125	
7039539	U-238	9.65E+00	pCi/L	2.0E+00		1.58E-01	99.6	9.04E+00	UISO_PLATE_	2.001E-01	02/23/2007			75	D
BS	U-238			1.1E+00				106.7		L	22:47			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6EA1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:16
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039532	ALPHA	2.05E+01	pCi/L	5.6E+00		1.10E+00	100.0	2.26E+01	9310_ALPHAB	1.997E-01	02/26/2007			70	D
BS	12587-46-1			2.9E+00				90.8		L	20:04			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JN6ED1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/02/2007 10:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039533	H-3	2.44E+03	pCi/L	2.4E+02		3.04E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	02/22/2007			75	D
BS	10028-17-8			2.0E+02				89.8		L	00:26			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JN6ED1EM **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/02/2007 10:02

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039533	H-3	2.54E+03	pCi/L	2.5E+02		3.08E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	02/22/2007			75	D
BS	10028-17-8			2.0E+02				93.7		L	16:47			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6EX1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:52
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039534	Uranium	3.26E+01	ug/L	4.0E+00		8.19E-02		3.51E+01	UTOT_KPA	2.56E-02	02/28/2007			75	D
BS	7440-61-1			4.0E+00				92.8		ML	16:35			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6EX1DS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:52
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039534	Uranium	3.55E+00	ug/L	3.6E-01		8.09E-02		3.50E+00	UTOT_KPA	2.59E-02	02/28/2007			75	D
BS	7440-61-1			3.6E-01				101.4		ML	16:37			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JN6FA1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039542	SR-90	1.31E+01	pCi/L	2.0E+00		4.23E-01	93.0	1.36E+01	SRISO_SEP_P	1.004E+00	02/28/2007			70	D
BS	10098-97-2			6.7E-01				96.3		L	06:51			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6FC1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/02/2007 11:52
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BO	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039543	I-129L	6.76E+00	pCi/L	9.4E-01		3.52E-01	97.5	9.72E+00	I129LL_SEP_L	3.9643E+00	02/27/2007			70	D
BS	15046-84-1			9.4E-01				69.6		L	05:14			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6FC2CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/02/2007 11:52
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039543	I-129L	8.49E+00	pCi/L	1.1E+00		3.50E-01	97.5	9.72E+00	I129LL_SEP_L	3.9643E+00	03/01/2007			70	D
BS	15046-84-1			1.1E+00				87.3		L	10:34			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JN6FE1CS	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 10:15
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039545	PU-239	4.40E+00	pCi/L	1.4E+00		3.51E-01	47.3	4.49E+00	PUISO_PLATE	2.029E-01	02/20/2007			75	D
BS	PU-239/240			1.1E+00				98.0		L	18:40			125	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNV3N1DR **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 12:16

Client Id: B1LRH3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
WO7-001	MW6-SBB-A19981								BS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039532	ALPHA	2.46E+00	pCi/L	1.5E+00		1.53E+00	100.0		9310_ALPHAB	2.013E-01	02/26/2007	23.6	0.5		D
DUP	12587-46-1	1.94E+00		1.3E+00						L	20:04	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JNVW71DR	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:04
Client Id:	B1LCD8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039534	Uranium	7.01E+01	ug/L	8.5E+00		8.35E-02			UTOT_KPA	2.51E-02	02/28/2007	.1	0.		D
DUP	7440-61-1	7.02E+01		8.5E+00						ML	16:51	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNVW71ER **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 12:04

Client Id: B1LCD8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039539	U-234	2.60E+01	pCi/L	4.7E+00		1.62E-01	96.4		UISO_PLATE_	2.013E-01	02/23/2007	4.8	0.4		D
DUP	13966-29-5	2.72E+01		1.9E+00						L	18:56	20.0	3		
7039539	U-235	7.80E-01	pCi/L	3.5E-01		1.62E-01	96.4		UISO_PLATE_	2.013E-01	02/23/2007	24.0	0.9		D
DUP	15117-96-1	9.92E-01		3.3E-01						L	18:56	20.0	3		
7039539	U-238	2.47E+01	pCi/L	4.5E+00		1.62E-01	96.4		UISO_PLATE_	2.013E-01	02/23/2007	3.6	0.3		D
DUP	U-238	2.56E+01		1.8E+00						L	18:56	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNXLR1JR **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 09:01

Client Id: B1LP09 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								BW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039527	BE-7	1.39E+01	pCi/L	2.3E+01	U	4.40E+01			GAMMALL_GS	1.9528E+00	02/22/2007	42.6	0.3		D
DUP	13966-02-4	9.03E+00		2.3E+01						L	08:47	20.0	3		
7039527	CO-60	1.63E+00	pCi/L	2.6E+00	U	5.51E+00			GAMMALL_GS	1.9528E+00	02/22/2007	8.6	0.1		D
DUP	10198-40-0	1.78E+00		2.6E+00						L	08:47	20.0	3		
7039527	CS-134	-1.30E+00	pCi/L	3.0E+00	U	5.15E+00			GAMMALL_GS	1.9528E+00	02/22/2007	0.0	0.6		D
DUP	13967-70-9	-1.30E-01		3.0E+00						L	08:47	20.0	3		
7039527	CS-137	-3.44E-01	pCi/L	2.6E+00	U	4.69E+00			GAMMALL_GS	1.9528E+00	02/22/2007	462.5	0.7		D
DUP	10045-97-3	8.68E-01		2.6E+00						L	08:47	20.0	3		
7039527	EU-152	3.33E+00	pCi/L	5.1E+00	U	9.85E+00			GAMMALL_GS	1.9528E+00	02/22/2007	908.4	1.5		D
DUP	14683-23-9	-2.13E+00		5.1E+00						L	08:47	20.0	3		
7039527	EU-154	-1.46E+00	pCi/L	6.6E+00	U	1.22E+01			GAMMALL_GS	1.9528E+00	02/22/2007	0.0	0.3		D
DUP	15585-10-1	-2.64E+00		6.6E+00						L	08:47	20.0	3		
7039527	EU-155	-7.19E-01	pCi/L	4.0E+00	U	7.01E+00			GAMMALL_GS	1.9528E+00	02/22/2007	0.0	0.6		D
DUP	14391-16-3	-2.45E+00		4.0E+00						L	08:47	20.0	3		
7039527	K-40	2.09E-01	pCi/L	5.4E+01	U	1.18E+02			GAMMALL_GS	1.9528E+00	02/22/2007	0.0	0.		D
DUP	13966-00-2	-1.08E+00		5.4E+01						L	08:47	20.0	3		
7039527	RU-106	8.38E+00	pCi/L	1.9E+01	U	3.78E+01			GAMMALL_GS	1.9528E+00	02/22/2007	0.0	1.7		D
DUP	13967-48-1	-1.48E+01		1.9E+01						L	08:47	20.0	3		
7039527	SB-125	-4.45E+00	pCi/L	5.9E+00	U	9.71E+00			GAMMALL_GS	1.9528E+00	02/22/2007	0.0	1.9		D
DUP	14234-35-6	3.73E+00		5.9E+00						L	08:47	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	JNXLR1LR	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	B1LP09	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								BY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039531	BETA	3.50E+01	pCi/L	5.4E+00		2.87E+00	100.0		9310_ALPHAB	2.004E-01	02/26/2007	9.3	0.9		D
DUP	12587-47-2	3.84E+01		3.0E+00						L	20:25	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JNXLR1MR	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	B1LP09	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								BZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039542	SR-90	3.68E-02	pCi/L	2.9E-01	U	6.15E-01	84.9		SRISO_SEP_P	9.934E-01	02/28/2007	1771.4	0.3		D
DUP	10098-97-2	-2.94E-02		2.9E-01						L	06:50	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNXMG1GR **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/01/2007 10:15

Client Id: B1LP14 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								CA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039528	TC-99	2.05E+02	pCi/L	2.0E+01		9.86E+00	100.0		TC99_ETVDSK	1.254E-01	02/20/2007	4.1	0.6		D
DUP	14133-76-7	2.13E+02		8.7E+00						L	10:37	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JNXMG1HR	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 10:15
Client Id:	B1LP14	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								CB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039545	PU-238	0.00E+00	pCi/L	9.3E-02	U	2.19E-01	74.6		PUISO_PLATE	2.009E-01	02/20/2007	0.0	0.		D
DUP	13981-16-3	0.00E+00		9.3E-02						L	18:40	20.0	3		
7039545	PU-239	2.74E-02	pCi/L	9.5E-02	U	2.59E-01	74.6		PUISO_PLATE	2.009E-01	02/20/2007	3.8	0.		D
DUP	PU-239/240	2.85E-02		9.5E-02						L	18:40	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JNXR01DR	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/02/2007 10:02
Client Id:	B1LPC1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								CC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039533	H-3	4.81E+04	pCi/L	1.9E+03		3.02E+02	100.0		906.0_H3_LSC	5.00E-03	02/22/2007	.5	0.2		D
DUP	10028-17-8	4.83E+04		7.1E+02						L	20:54	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: JNXRL1CR **Sdg/Rept Nbr:** W05107 34705 **Collection Date:** 02/02/2007 11:52

Client Id: B1LC48 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								CD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039543	I-129L	5.12E-02	pCi/L	1.4E-01	U	2.75E-01	97.6		I129LL_SEP_L	3.7707E+00	02/26/2007	11.8	0.1		D
DUP	15046-84-1	4.55E-02		1.4E-01						L	22:26	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JNVW31CW	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 12:52
Client Id:	B1LCH5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039534	Uranium	3.93E+01	ug/L	2.3E+01		8.42E-02		3.62E+01	UTOT_KPA	2.49E-02	02/28/2007			60	D
MS	7440-61-1			2.3E+01				108.6		ML	16:43			140	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05107.Edd, h:\Reportdb\edd\FeadIV\Rad\34705.Edd

Lab Sample Id:	JNXLR1KW	**Sdg/Rept Nbr:**	W05107	34705	**Collection Date:** 02/01/2007 09:01
Client Id:	B1LP09	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 02/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								BX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039528	TC-99	3.40E+03	pCi/L	2.4E+02		9.91E+00	100.0	3.68E+03	TC99_ETVDSK	1.245E-01	02/20/2007			60	D
MS	14133-76-7			3.2E+01				92.3		L	10:37			140	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/21/2007 2:46:24 PM

Lot No., Due Date: J7B050132; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039545; RPUISO Pulso by ALP

SDG, Matrix: W05107; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Steven E. Mitchell **Date** 2/21/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703545
W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 2-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/27/2007 1:31:41 PM

Lot No., Due Date: J7B020316; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039539; RUISO Uiso by ALP

SDG, Matrix: W05107; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review _____ **Date** 2/27/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039539
W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/27/2007 11:41:24 AM

Lot No., Due Date: J7B020335,J7B050132; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039532; RALPHA-A Alpha by GPC-Am

SDG, Matrix: WO5107,W05107; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JNV3N1AD ALPHA 24.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JNV3N1AA ALPHA 1.9E+00 L:1.3E+00 JNXLR1AA ALPHA 4.2E+00 L:1.7E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments: NCM# 10-09491			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Lisa Quinton **Date** 2/27/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039532
WO 5107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?			
2. Are all required forms filled out?	/		/
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: _____

Second Level Review: Sheryl A Adam Date: 2-28-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09491**
NCM Initiated By: Lisa Antonson
Date Opened: 02/27/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J7B020335 (1), J7B050132 (2), J7B080000 (532),
QC Batches: 7039532

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	02/27/2007	On this Alpha batch, the LCS didn't have a recovery. Looking at the raw data, it was obvious that there was a blank/spike switch in the lab. The data was corrected in radcalc. The LCS is now 91%. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	02/27/2007	Spoke with both analysts involved, they will use more caution.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/27/2007 11:06:11 AM

Lot No., Due Date: J7B020335,J7B050132; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039531; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: WO5107,W05107; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JNV3N1AC BETA 7.4E+00 L:2.9E+00 JNXLR1AC BETA 3.8E+01 L:2.8E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

	Yes	No	N/A
8.26 Instruments have Current Calibrations.			
8.27 Correct Count Library Used. No Count Library found in Batch Data!			✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)			
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)			
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	✓		

First Level Review Lisa Antonson **Date** 2/27/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039531
W05071

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Theresa A Adam Date: 2-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/28/2007 9:46:52 AM

Lot No., Due Date: J7A310377,J7B050132; 03/16/2007,03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039542; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05107; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Matt Landy **Date** February 28, 2007

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039542
W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 2-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/22/2007 1:19:06 PM

Lot No., Due Date: J7B050132; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039527; RGAMMA Gamma by GER

SDG, Matrix: W05107; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review _____ **Date** 2/22/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039527
W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?			/
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 2-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/6/2007 10:04:30 AM

Lot No., Due Date: J7A310377,J7B050132,J7B050154,J7B050158,J7B050163,J7B050162; 03/16/2007,03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039543; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05107; WATER

8.0 Correction Calculation Protocol Used. — Yes ✓ No N/A
OK

8.01 The Appropriate Methods Were Used To Analyze the Samples — Yes No ✓ N/A
Method Differs => JNPEH1AA LEP<>TB
JNXLQ1AA LEP<>TB
JNXLR1AE LEP<>TB
JNXMG1AC LEP<>TB
JNXN21AC LEP<>TB
JNXPG1AC LEP<>TB
JNXPQ1AC LEP<>TB
JNXPW1AC LEP<>TB
JNXRL1AA LEP<>TB
JNXRL1AC LEP<>TB
JNXR01AC LEP<>TB
JN6FC1AA LEP<>TB
JN6FC2AC LEP<>TB Q:V6
ok PA 3.6.08

8.02 Final Results Are in the Appropriate Activity Units — Yes ✓ No N/A
OK

8.03 Batch Contains the Required QC Appropriate for the Method — Yes ✓ No N/A
OK

8.04 The Correct Tracer and QC Vials Where Used in the Samples — Yes ✓ No N/A
OK

8.05 Sample was Appropriately Traced Before or After Fractionating the Sample — Yes ✓ No N/A
OK

8.06 At Least the Minimum Sample Volume Was Used — Yes No ✓ N/A
Analysis Volume => JNPEH1AA 3.942<4000.00
JNXLQ1AA 3.899<4000.00
JNXLR1AE 3.908<4000.00
JNXMG1AC 3.926<4000.00
JNXN21AC 3.905<4000.00
JNXPG1AC 3.877<4000.00
JNXPQ1AC 3.851<4000.00
JNXPW1AC 3.872<4000.00
JNXRL1AA 3.822<4000.00
JNXR01AC 3.935<4000.00 Q:VB
OK PA 3.6.08

8.07 The Correct Count Geometry was Used. — Yes No ✓ N/A
Count Geometry => JNPEH1AA I_FA<>IFA
JNXLQ1AA I_FA<>IFA
JNXLR1AE I_FA<>IFA
JNXMG1AC I_FA<>IFA
JNXN21AC I_FA<>IFA
JNXPG1AC I_FA<>IFA
JNXPQ1AC I_FA<>IFA
JNXPW1AC I_FA<>IFA
JNXRL1AA I_FA<>IFA
JNXRL1AC I_FA<>IFA
JNXR01AC I_FA<>IFA
JN6FC1AA I_FA<>IFA
JN6FC2AC I_FA<>IFA Q:VC
OK PA 3.6.08

8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. — Yes ✓ No N/A
OK

8.09 Method Blank is within Control Limits. — Yes ✓ No N/A
OK

8.1 Comments:

8.11 Matrix Blank is within Control Limits. — Yes No ✓ N/A
No Matrix Blanks (MBlks) found in Batch!

8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). — Yes ✓ No N/A
OK

8.13 QAS Specified Duplicate Equation Value within Control Limits. — Yes ✓ No N/A
OK (RPD)

8.14 LCS within Control Limits. Yes No N/A
OK

8.15 MLCS within Control Limits. Yes No N/A
No Matrix Spikes (MLCS) found in Batch!

8.16 MS within Control Limits. Yes No N/A
No Matrix Spike Samples (MS) found in Batch!

8.17 Tracer within Control Limits. Yes No N/A
OK

8.18 Samples are above Minimum Tracer Yield (No Failed Samples) Yes No N/A
OK

8.19 Sample Specific MDC <= CRDL. Yes No N/A
OK

8.2 Comments:

8.21 Result < Lc, Activity Not Detected, U Flag. Yes No N/A
No Limit Specified!

8.22 Result < Mdc, Activity Not Detected, U Flag. Yes No N/A
Batch Positive Result =>
JNXLR1AE I-129L 1.4E+00 L:2.6E-01
JNXMG1AC I-129L 7.7E-01 L:4.2E-01
JNXPQ1AC I-129L 1.7E+00 L:2.7E-01
JNXPW1AC I-129L 3.2E+00 L:3.0E-01
JNXR01AC I-129L 2.5E+00 L:2.7E-01

8.23 Result <= Action Level, when Defined. Yes No N/A
OK; No Action Level Found => I-129L

OK; No Callin Level Found => I-129L

8.24 Result + 3s >=0, Not Too Negative. Yes No N/A
OK

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A
FWHM > maxFWHM => JNXLR1AE I-129L 15>0
JNXPQ1AC I-129L 21.00>0
JNXPW1AC I-129L 18.00>0
JNXR01AC I-129L 25.00>0
JN6FC2AC I-129L 19.00>0 Q:V1

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A
Library Not Specified => JNPEH1AA I:[NUC_LIBR]LEPS.NLB Q:
JNXLQ1AA I:[NUC_LIBR]LEPS.NLB Q:
JNXLR1AE I:[NUC_LIBR]LEPS.NLB Q:
JNXMG1AC I:[NUC_LIBR]LEPS.NLB Q:
JNXN21AC I:[NUC_LIBR]LEPS.NLB Q:
JNXPG1AC I:[NUC_LIBR]LEPS.NLB Q:
JNXPQ1AC I:[NUC_LIBR]LEPS.NLB Q:
JNXPW1AC I:[NUC_LIBR]LEPS.NLB Q:
JNXRL1AA I:[NUC_LIBR]LEPS.NLB Q:
JNXRL1AC I:[NUC_LIBR]LEPS.NLB Q:
JNXR01AC I:[NUC_LIBR]LEPS.NLB Q:
JN6FC1AA I:[NUC_LIBR]LEPS.NLB Q:
JN6FC2AC I:[NUC_LIBR]LEPS.NLB Q:

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.3 Comments:

8.31 Results Blank Subtracted as Appropriate. Yes No N/A
OK

First Level Review Pam Anderson **Date** 3-6-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703954K3
WO 5107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓	3-6-07 ✓	
C. Other 1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: See Narr

Second Level Review: Sheryl A Adam Date: 3-6-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09515
NCM Initiated By: Pam Anderson
Date Opened: 03/06/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Gamma by LEPS
Lot #'s (Sample #'s): J7A310377 (1), J7B050132 (1,2,3), J7B050154 (3), J7B050158 (1,2,3), J7B050162 (1), J7B050163 (1), J7B080000 (543),
QC Batches: 7039543

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	03/06/2007	This I 129 in water had a low LCS recovery. It was recounted. The recount gives a good LCS recovery. The difference is considered counting statistics.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	03/06/2007	The LCS was recounted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/20/2007 4:07:03 PM

Lot No., Due Date: J7B020339,J7B050132; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039528; RTC99 Tc-99 by LSC

SDG, Matrix: W05107; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JNXLR1AK TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc. IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions.)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions.)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Lisa Quinton **Date** 2/20/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039528
W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Nonconformances included and noted?			/
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: _____

Second Level Review: Sheryl A Adam Date: 2-21-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/23/2007 11:31:55 AM

Lot No., Due Date: J7B020323,J7B020339,J7B050154,J7B050153,J7B050158,J7B050163; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039533; RTRITIUM H-3 by LSC

SDG, Matrix: W05107; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review _____ **Date** 2/23/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039533
W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Kerryl A Adam Date: 2-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/1/2007 8:38:29 AM

Lot No., Due Date: J7B020316; 03/19/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039534; RUNAT UNat by KPA

SDG, Matrix: W05107; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	✓		
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review _____ **Date** 3/1/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703953 / W05107

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review: Sheryl A Adam Date: 3-1-07

PNNL 74310377
W05107
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-021-4**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1-LOI JANUARY 2007	HNF-N-505-2	**Ice Chest No.** 5 RNJ-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNF5		W	1-31-7	0938	1x20-mL P	Activity Scan	None
B1LNF5 (F)		W	〃	〃	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LNF5 (F)		W	〃	〃	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JNPEH	

Relinquished By Print: Fluor Hanford R. T. SICKLE Sign:	Date/Time 1520 JAN 31 2007	Received By Print: Eric Dooley Sign:	Date/Time 1520 JAN 31 2007
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

STL

Sample Check-in List

Date/Time Received: 11/31/07 1500

Client: PNL SDG #: W05107 NA [ ] SAF #: I07-021 NA [ ]

Work Order Number: VTA310377 Chain of Custody # I07-021-4960

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eu Darby Date: 11/31/07 1500

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTB020316 WOS107 Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-284**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506-2	**Ice Chest No.** SAMS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LCH5		W	2-1-7	1252	1x20-mL P	Activity Scan	None
B1LCH5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNVW3	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			FEB 0 1 2007 1330		Eric Dooley		FEB 0 1 2007 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL JTB020316
W05107
Due 03-16-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-268

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506-2	**Ice Chest No.** SAWS-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LCD8		W	2-1-07	1204	1x20-mL P	Activity Scan	None
B1LCD8		W	〃	〃	1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1LCD8		W	〃	〃	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNVW7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE	R T Sickle	1330 FEB 01 2007		Eric Darby	Eric Darby	1330 FEB 01 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 2/1/07 1330

Client: PNL SDG #: W05/07 NA [ ] SAF #: S07-012 NA [ ]

Work Order Number: J7B020316 Chain of Custody # S07-012-268, 284

Shipping Container ID: ______ Air Bill # ______

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: ______ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: ______
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   ___ tape
   ___ custody seals
   ___ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   ___ broken
   ___ leaking
   ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ______

Sample Custodian: [signature] Date: 2/1/07 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ______ by ______ Person contacted ______

[ ] No action necessary; process as is.

Project Manager ______ Date ______

LS-023, 9/03, Rev. 5

PNNL JTB020323
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-208**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** 5W5-115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP81		W	2-1-07	1049	1x20-mL P	Activity Scan	None
B1LP81		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNV3J	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			FEB 0 1 2007 1330	Eric Dooley	Eric Dooley		FEB 0 1 2007 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL

Sample Check-in List

Date/Time Received: 2/1/07

Client: PNL SDG #: W05107 NA ( ) SAF #: 507-001 NA ( )

Work Order Number: JTB020323 Chain of Custody #: 507-001,208

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ( ) Yes (✓) No ( )
2. Custody Seals dated and signed? NA ( ) Yes (✓) No ( )
3. Chain of Custody record present? Yes (✓) No ( )
4. Cooler temperature: _____ NA (✓) 5 Vermiculite/packing materials is NA (✓) Wet ( ) Dry ( )
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA (✓) Yes ( ) No ( )
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   (✓) appropriate samples labels
9. Samples are:
   (✓) in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA ( ) pH<2 ( ) pH>2 (✓) pH>9 ( )
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes (✓) No ( )
12. Were any anomalies identified in sample receipt? Yes ( ) No (✓)
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Denby Date: 2/1/07 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

( ) No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTB020335
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-001-193

Page 1 of 1

Collector Fluor Hanford F M HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JANUARY 2007	HNF-N-506 3	**Ice Chest No.** Ross **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LRH3		W	2-1-07	1216	1x20-mL P	Activity Scan	None
B1LRH3		W	"	"	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JNV3N	

Relinquished By Print: Fluor Hanford F M HALL Sign:	Date/Time FEB 0 1 2007 1445	Received By Print: Sign:	Date/Time FEB 0 1 2007 1445
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL

Sample Check-in List

Date/Time Received: 02-01-07 1445

Client: PGW SDG #: W05107 NA [ ] SAF #: W07-001 NA [ ]

Work Order Number: JTB020335 Chain of Custody # W07-001-193

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ tape
   - _____ custody seals
   - _____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - _____ broken
   - _____ leaking
   - _____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 02-01-07 1445

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTB020339
W05107
Due 03/19/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-362**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-5061	**Ice Chest No.** SML 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP41		W	2-1-07	1611	1x20-mL P	Activity Scan	None
B1LP41		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP41		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNV46	

Relinquished By Print: Fluor Hanford D. E. PARCHEN Sign: [signature]	Date/Time FEB 01 2007 1445	Received By Print: A. Smith Sign: A. Smith-TH	Date/Time FEB 01 2007 1445
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-378**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-1	**Ice Chest No.** SML-595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNP3		W	2-1-07	1057	1x20-mL P	Activity Scan	None
B1LNP3		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JNV4K	

Relinquished By Print: Fluor Hanford D. E. PARCHEN Sign: [signature] Date/Time: FEB 01 2007 1445	Received By Print: J. Smith Sign: S. Smith Date/Time: FEB 01 2007 1445	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

STL

Sample Check-in List

Date/Time Received: 02-01-07 1445

Client: PGW SDG #: W05107 NA [ ] SAF #: 507-001 NA [ ]

Work Order Number: JTB020339 Chain of Custody # 507-001-362, 378

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ tape
   - _____ custody seals
   - _____ hazard labels
   - [✓] appropriate samples labels
9. Samples are:
   - [✓] in good condition
   - _____ broken
   - _____ leaking.
   - _____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: A. Smith Date: 02-01-07 1445

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTB050132
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-280**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	H1F-N-506 3	**Ice Chest No.** 1255 **Temp.**
Shipped To (Lab) Severn Trent Incornorated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP03		W	2-1-07	1216	1x20-mL P	Activity Scan	None
B1LP03		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JNXLQ	

Relinquished By Fluor Hanford F. M. HALL Print / Sign / Date/Time FEB 0 1 2007 1445	Received By S. Smith Print / Sign / Date/Time FEB 0 1 2007 1445	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL J7B050132
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-306**

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-IV-506 3	**Ice Chest No.** ROSS **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP09		W	2-1-07	0901	1x20-mL P	Activity Scan	None
B1LP09		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP09		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP09		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LP09		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LP09		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LP09		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						GNXLR	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			FEB 01 2007 1445		J. Smith	J. Smith	FEB 01 2007 1445
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wipe
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-001-314

Page 1 of 1

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506 3	**Ice Chest No.** Lost **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP14		W	2-1-07	1015	1x20-mL P	Activity Scan	None
B1LP14		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP14		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1LP14		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LP14		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LP14		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	HNO3 to pH <2
						JNXME	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford F. M. HALL		FEB 0 1 2007 1445				FEB 0 1 2007 1445
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02.01.07 1445

Client: PBW SDG #: 1005107 NA [ ] SAF #: 507-001- NA [ ]

Work Order Number: JTB050132 Chain of Custody # 507-001-280, 306, 314

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? Yes [X] No [ ]
4. Cooler temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   __✓__appropriate samples labels
9. Samples are:
   __✓__in good condition
   _____broken
   _____leaking.
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [X] pH>2 [X] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [X] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 02.01.07 1445

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTB050153
W05107
Due 03/19/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-010-271**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-010	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, OCTOBER 2006	MNF-N-5061	**Ice Chest No.** SML 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL GW samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KPK0		W	2-1-07	0923	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1KPK0		W	↓	↓	1x20-mL P	Activity Scan	None
						JNXNQ	

Relinquished By	Print: Fluor Hanford D. E. PARCHEN	Sign	Date/Time: FEB 01 2007 1445	Received By	Print: S. Smith	Sign: S. Smith	Date/Time: FEB 01 2007 1445
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL

Sample Check-in List

Date/Time Received: 02-01-07 1445

Client: PGW SDG #: W05107 NA [ ] SAF #: 307-010 NA [ ]

Work Order Number: JTB050153 Chain of Custody # 307-010-2 71

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? Yes [X] No [ ]
4. Cooler temperature: _____ NA [X] 5. Vermiculite/packing materials is NA [X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   1 appropriate samples labels
9. Samples are:
   1 in good condition
   _____broken
   _____leaking.
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [X] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [X] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 02-01-07 1445

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7B050154
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-178**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** 115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP57		W	2-2-07	0859	1x20-mL P	Activity Scan	None
B1LP57		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXNT	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE	K. B. HULSE	K B Hulse	FEB 0 2 2007 1240	Eric Dunby	Eric Dunby	Eric Dunby	FEB 0 2 2007 1240
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL JT8050154
WO5107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-179**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** 115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP58		W	2-2-07	0859	1x20-mL P	Activity Scan	None
B1LP58		W	"	"	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXNO	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			FEB 02 2007 1240		Eric Darby		FEB 02 2007 1240
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL JTB050154 W05107 Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-394**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-2	**Ice Chest No.** 115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPF9		W	2-2-07	0953	1x20-mL P	Activity Scan	None
B1LPF9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPF9		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXNZ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse	K B Hulse	FEB 02 2007 1240	E A Dailey	E A Dailey	E A Dailey	FEB 02 2007 1240
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL 78050154
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-420**

Page 1 of 1

Collector Fluor Hanford K B HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-526-2	**Ice Chest No.** 115 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPD1		W	2207	1207	1x20-mL P	Activity Scan	None
B1LPD1		W	"	"	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXN3	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse	K B Hulse	FEB 02 2007 1240	E Daily	Eric Dorsey	Eric Dorsey	FEB 02 2007 1240
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 2/1/07 1030

Client: PNL SDG # W05107 NA [ ] SAF #: 507001 NA [ ]

Work Order Number: 7805015 4 Chain of Custody # 507-001,178,179,394,420

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   [✓] appropriate samples labels
9. Samples are:
   [✓] in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers). _____

Sample Custodian: Eric Davis Date: 2/2/07 1240

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7B050158
W05107
Due 03.19.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-226**

Page 1 of 1

Collector FLUOR HANFORD M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-4	**Ice Chest No.** SMC-5000-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP93		W	2/2/7	0846	1x20-mL P	Activity Scan	None
B1LP93		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP93		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXPG	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD	M.R. WEIL		FEB 02 2007 1250		Eric Dolly	Eric Dolly	FEB 02 2007 1250
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wine
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL J7B050158
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-214**

Page 1 of 1

Collector FLUOR HANFORD M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HHF - N - 506 - 4	**Ice Chest No.** SWK-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP84		W	2/2/7	0957	1x20-mL P	Activity Scan	None
B1LP84		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP84		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXPQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL	M.R. WEIL		FEB 02 2007 1250				FEB 02 2007 1250
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wipe
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL JTB050158 W05107 Due 03-19-07
FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-190**

Page 1 of 1

Collector M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HNF-N-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP66		W	2/2/7	1038	1x20-mL P	Activity Scan	None
B1LP66		W	↓		2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LP66		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXPW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL	M.R. WEIL		FEB 02 2007 1250		Eric Darby		FEB 02 2007 1250
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wine
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

STL

Sample Check-in List

Date/Time Received: 2/2/07 1250

Client: PAL SDG #: W05107 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: J7B050158 Chain of Custody # S07-001-226,214,190

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   [✓] appropriate samples labels
9. Samples are:
   [✓] in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [ ] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 2/2/07 1250

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL JTB050162
WO5107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-012-514**

Page 1 of 1

Collector J.G. HOGAN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, DECEMBER 2006	HNF-N-506 1	**Ice Chest No.** SMC 595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LC48		W	2-2-07	1152	1x20-mL P	Activity Scan	None
B1LC48		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JNXRL	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
J.G. HOGAN	J T Hogan	1500 FEB 02 2007	E Darby	Eric Darby	1500 FEB 02 2007
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

STL

Sample Check-in List

Date/Time Received: 2/2/07 1500

Client: PNL SDG #: W05107 NA [ ] SAF #: S07-012 NA [ ]
J7B050162

Work Order Number: W05107 Chain of Custody # S07-012-574

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   [✓] appropriate samples labels
9. Samples are:
   [✓] in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 2/2/07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL J7B050163
W05107
Due 03-19-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-001-256**

Page 1 of 1

Collector FEB 0 2 2007 J.G. HOGAN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2007	HOF-N-506 1	**Ice Chest No.** SML-595 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LPC1		W	2-2-07	1002	1x20-mL P	Activity Scan	None
B1LPC1		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1LPC1		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JNXRO	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.G. HOGAN			FEB 0 2 2007 1500		Eric Darby		FEB 0 2 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wine
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 2/2/07 1500

Client: PNL SDG #: W05707 NA [ ] SAF #: S07-001 NA [ ]

Work Order Number: 7780501G3 Chain of Custody # S07-001-256

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   - _____ tape
   - _____ custody seals
   - _____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - _____ broken
   - _____ leaking.
   - _____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 2/2/07 1500

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

2/16/2007 10:14:27 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/19/2007 W05107

Sep1 DT/Tm Tech:

Batch: 7039545 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNXLR-1-AF J7B050132-2-SAMP 02/01/2007 09:01		199.70g,in AmtRec: 20ML,500MLP,5XLP,3X4LP #Containers: 10	PUTC10495 01/23/07,pd 08/04/06,r	200		Scr: Alpha: -3.53E-04 uCi/Sa Beta: -1.35E-03 uCi/Sa		
2 JNXMG-1-AD J7B050132-3-SAMP 02/01/2007 10:15		203.60g,in AmtRec: 20ML,500MLP,5XLP,3X4LP #Containers: 9	PUTC10496 01/23/07,pd 08/04/06,r			Scr: Alpha: 1.40E-03 uCi/Sa Beta: -3.04E-04 uCi/Sa		
3 JNXMG-1-AH-X J7B050132-3-DUP 02/01/2007 10:15		200.90g,in AmtRec: 20ML,500MLP,5XLP,3X4LP #Containers: 9	PUTC10497 01/23/07,pd 08/04/06,r			Scr: Alpha: 1.40E-03 uCi/Sa Beta: -3.04E-04 uCi/Sa		
4 JN6FE-1-AA-B J7B080000-545-BLK 02/01/2007 10:15		200.20g,in AmtRec: #Containers: 1	PUTC10498 01/23/07,pd 08/04/06,r			Scr: Alpha: Beta:		
5 JN6FE-1-AC-C J7B080000-545-LCS 02/01/2007 10:15		202.90g,in AmtRec: #Containers: 1	PUSG0903 02/14/07,pd 08/04/06,r			Scr: Alpha: Beta:		

Comments: pH <2.0 SB 2-16-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNXLR1AF-SAMP Constituent List:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20

2/20/2007 12:47:40 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

7Y Also PrpRC5016/5086, SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/19/2007 W05107

Sep1 DT/Tm Tech:

Batch: 7039539 **WATER** **pCi/L**

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNVW7-1-AA J7B020316-2-SAMP 02/01/2007 12:04			201.50g,in AmtRec: 20ML,500MLP,LP	201.50g #Containers: 3	UITC17049 02/12/07,pd 01/20/04,r	200 Scr:		Alpha: 4.98E-04 uCi/Sa		Beta: -3.30E-04 uCi/Sa
2 JNVW7-1-AE-X J7B020316-2-DUP 02/01/2007 12:04			201.30g,in AmtRec: 20ML,500MLP,LP	201.30g #Containers: 3	UITC17050 02/12/07,pd 01/20/04,r	Scr:		Alpha: 4.98E-04 uCi/Sa		Beta: -3.30E-04 uCi/Sa
3 JN6E8-1-AA-B J7B080000-539-BLK 02/01/2007 12:04			201.20g,in AmtRec:	201.20g #Containers: 1	UITC17051 02/12/07,pd 01/20/04,r	Scr:		Alpha:		Beta:
4 JN6E8-1-AC-C J7B080000-539-LCS 02/01/2007 12:04			200.10g,in AmtRec:	200.10g #Containers: 1	UISG1402 02/12/07,pd 01/20/04,r	Scr:		Alpha:		Beta:

Comments: PH<2.0 JB 2-20-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNVW71AA-SAMP Constituent List:

U-232	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	U-234	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
U-235	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:	U-238	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

JN6E81AA-BLK:

U-232	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	U-234	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
U-235	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:	U-238	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

2/19/2007 8:45:32 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 235

AnalyDueDate: 03/19/2007 W05107

Sep1 DT/Tm Tech:

Batch: 7039532 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ /APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNV3N-1-AA J7B020335-1-SAMP 02/01/2007 12:16	200.40g,in AmtRec: 20ML,LP	#Containers: 2		1.5	25.8	50	10B	2030	2/26/07 DD	
2 JNV3N-1-AD-X J7B020335-1-DUP 02/01/2007 12:16	201.30g,in AmtRec: 20ML,LP	#Containers: 2			28.6		10C			
3 JNXLR-1-AA J7B050132-2-SAMP 02/01/2007 09:01	203.40g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10			47.8		10D			
4 JN6EA-1-AA-B J7B080000-532-BLK 02/01/2007 12:16	199.30g,in AmtRec:	#Containers: 1			0.4		10A			
5 JN6EA-1-AC-C J7B080000-532-LCS 02/01/2007 12:16	199.70g,in AmtRec:	ASD4124 01/18/07,pd 02/09/06,r #Containers: 1			0.3		10D	2138		

Comments: PH <2.0 JB 2-19-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNV3N1AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/19/2007

Sep1 DT/Tm Tech:

Batch: 7039532 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
JN6EA1AA-BLK:
  ALPHA       RDL:3          pCi/L     LCL:        UCL:        RPD:
JN6EA1AC-LCS:
  Am-241      RDL:           pCi/L     LCL:70      UCL:130     RPD:20
JNV3N1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JN6EA1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JN6EA1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

2/19/2007 8:40:39 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: 235

AnalyDueDate: 03/19/2007 W05107

Sep1 DT/Tm Tech:

Batch: 7039531 **WATER** **pCi/L**

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ /APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNV3N-1-AC J7B020335-1-SAMP 02/01/2007 12:16	201.40g,in AmtRec: 20ML,LP	#Containers: 2		1.5	46.7	100	26A Scr:	2115 Alpha: -5.13E-05 uCi/Sa	2/26/07DP Beta: 1.62E-04 uCi/Sa	
2 JNXLR-1-AC J7B050132-2-SAMP 02/01/2007 09:01	200.10g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10			62.5		26B Scr:	Alpha: -3.53E-04 uCi/Sa	Beta: -1.35E-03 uCi/Sa	
3 JNXLR-1-AL-X J7B050132-2-DUP 02/01/2007 09:01	200.40g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10			65.7		26C Scr:	Alpha: -3.53E-04 uCi/Sa	Beta: -1.35E-03 uCi/Sa	
4 JN6D6-1-AA-B J7B080000-531-BLK 02/01/2007 09:01	201.60g,in AmtRec:	#Containers: 1			0.3		26D Scr:	Alpha:	Beta:	
5 JN6D6-1-AC-C J7B080000-531-LCS 02/01/2007 09:01	200.60g,in AmtRec:	BESB3004 01/23/07,pd 08/08/06,r #Containers: 1			0.5		27D Scr:	Alpha:	Beta:	

Comments: PH L2.0 JB 2-19-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNV3N1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:

Sample Preparation/Analysis

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/19/2007

Sep1 DT/Tm Tech:

Batch: 7039531 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

JN6D61AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
JN6D61AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20
JNV3N1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6D61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6D61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

2/26/2007 3:40:55 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech: 02/19/2007 15:41,ManisD

Batch: 7039542 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 02/26/2007 09:32,ManisD

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JNPEH-1-AC** J7A310377-1-SAMP		1000.60g,in	SRTB14500 02/12/07,pd 09/11/06,r	0.8565	1.0	25.7	100	7A 7A	0643 0734	2/27/07 2/28/07	
						02/19/2007 15:41,s1, 02/26/2007					
01/31/2007 09:38		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: 3.34E-04 uCi/Sa		Beta: 1.01E-03 uCi/Sa
2 **JNXLR-1-AG** J7B050132-2-SAMP		1008.00g,in	SRTB14501 02/12/07,pd 09/11/06,r	0.9707	1.0	25.5	100	7B 7B	0643 0734	2/27/07 2/28/07	
						02/19/2007 15:41,s1, 02/26/2007					
02/01/2007 09:01		AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10					Scr:	Alpha: -3.53E-04 uCi/Sa		Beta: -1.35E-03 uCi/Sa
3 **JNXLR-1-AM-X** J7B050132-2-DUP		993.40g,in	SRTB14502 02/12/07,pd 09/11/06,r	0.8562	1.0	25.2	100	7C 7C	0643 0734	2/27/07 2/28/07	
						02/19/2007 15:41,s1, 02/26/2007					
02/01/2007 09:01		AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10					Scr:	Alpha: -3.53E-04 uCi/Sa		Beta: -1.35E-03 uCi/Sa
4 **JNXMG-1-AE** J7B050132-3-SAMP		1006.50g,in	SRTB14503 02/12/07,pd 09/11/06,r	0.9453	1.0	25	100	1A 1A	0643 0734	2/27/07 2/28/07	
						02/19/2007 15:41,s1, 02/26/2007					
02/01/2007 10:15		AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 9					Scr:	Alpha: 1.40E-03 uCi/Sa		Beta: -3.04E-04 uCi/Sa

Sample Preparation/Analysis

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech: 02/19/2007 15:41,ManisD

Batch: 7039542 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: 02/26/2007 09:32,ManisD

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JN6FA-1-AA-B J7B080000-542-BLK		1000.50g,in	SRTB14504 02/12/07,pd 09/11/06,r	0.8730	1.0	25.5	100	1B 1B	0643 0734	8/27/07 8/28/07 KS	
						02/19/2007 15:41;s1; 02/26/2007					
02/01/2007 09:01		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
6 JN6FA-1-AC-C J7B080000-542-LCS		1004.00g,in	SRSG1317 02/06/07,pd 09/11/06,r	0.9563	1.0	24.7	100	1C 1C	0643 0734	8/27/07 8/28/07	
						02/19/2007 15:41;s1; 02/26/2007					
02/01/2007 09:01		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNPEH1AC-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20
JN6FA1AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
JN6FA1AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JNPEH1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6FA1AA-BLK:

2/16/2007 8:33:09 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: DRM

AnalyDueDate: 03/16/2007 W05107

Sep1 DT/Tm Tech: 2/19/07 3:41:21 PM

Batch: 7039542 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 2/20/07 9:32:25 AM DRM

SEQ Batch, Test: None All Tests: 7039542 CLTL, 7039543 BNTB,

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNPEH-1-AC J7A310377-1-SAMP		1000.60g,in	SRTB14500 1.698 02/12/07,pd 09/11/06,r 1.9825 YTA17011 0.85625 Ex:1/3/2008				100	9"	1702	2/19/07DD	
01/31/2007 09:38		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6				Scr:	Alpha: 3.34E-04 uCi/Sa		Beta: 1.01E-03 uCi/Sa	
2 JNXLR-1-AG J7B050132-2-SAMP		1008.00g,in	SRTB14501 1.981 02/12/07,pd 09/11/06,r 2.0407 YTA17012 0.9407 Ex:1/3/2008					3"	1702	2/19/07DD	
02/01/2007 09:01		AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10				Scr:	Alpha: -3.53E-04 uCi/Sa		Beta: -1.35E-03 uCi/Sa	
3 JNXLR-1-AM-X J7B050132-2-DUP		993.40g,in	SRTB14502 1.941 02/12/07,pd 09/11/06,r 2.0385 YTA17013 0.8503 Ex:1/3/2008					9"	1739	2/19/07DD	
02/01/2007 09:01		AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 10				Scr:	Alpha: -3.53E-04 uCi/Sa		Beta: -1.35E-03 uCi/Sa	
4 JNXMG-1-AE J7B050132-3-SAMP		1006.50g,in	SRTB14503 1.881 02/12/07,pd 09/11/06,r 1.9898 YTA17014 0.9453 Ex:1/3/2008					3"	1739	2/19/07DD	
02/01/2007 10:15		AmtRec: 20ML,500MLP,5XLP,3X4LP	#Containers: 9				Scr:	Alpha: 1.40E-03 uCi/Sa		Beta: -3.04E-04 uCi/Sa	

2/16/2007 8:33:11 AM

Sample Preparation/Analysis

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7039542 **pCi/L**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JN6FA-1-AA-B J7B080000-542-BLK		1000.50g,in	SRTB14504 02/12/07,pd 09/11/06,r	1.956 2.0115 0.8730 YTA17015 Ex:1/3/2008			100	9"	1815	2/19/07 DK	
02/01/2007 09:01		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:	
6 JN6FA-1-AC-C J7B080000-542-LCS		1004.00g,in	SRSG1317 02/06/07,pd 09/11/06,r	1.917 2.0045 0.9563 YTA17016 Ex:1/3/2008				3"	1815	2/19/07 DK	
02/01/2007 09:01		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:	

Comments: PH < 2.0 93 2-16-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNPEH1AC-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JN6FA1AA-BLK:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:

JN6FA1AC-LCS:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JNPEH1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6FA1AA-BLK:

RUN WITH

2/19/2007 11:24:21 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/19/2007 (W05107)

Sep1 DT/Tm Tech:

Batch: 7039527 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNXLR-1-AD J7B050132-2-SAMP 02/01/2007 09:01		1956.20g,in AmtRec: 20ML,500MLP,5XLP,3X4LP #Containers: 10			100 mL	100	65 Scr:	1023 Alpha: -3.53E-04 uCi/Sa	2/22/07 RS Beta: -1.35E-03 uCi/Sa	
2 JNXLR-1-AJ-X J7B050132-2-DUP 02/01/2007 09:01		1952.80g,in AmtRec: 20ML,500MLP,5XLP,3X4LP #Containers: 10					66 Scr:	1027 Alpha: -3.53E-04 uCi/Sa	Beta: -1.35E-03 uCi/Sa	
3 JNXMG-1-AA J7B050132-3-SAMP 02/01/2007 10:15		2007.70g,in AmtRec: 20ML,500MLP,5XLP,3X4LP #Containers: 9					68 Scr:	1028 Alpha: 1.40E-03 uCi/Sa	Beta: -3.04E-04 uCi/Sa	
4 JN6DR-1-AA-B J7B080000-527-BLK 02/01/2007 09:01		1995.00g,in AmtRec: #Containers: 1					64 Scr:	1029 Alpha:	Beta:	
5 JN6DR-1-AC-C J7B080000-527-LCS 02/01/2007 09:01		2001.50g,in AmtRec: #Containers: 1	QCAG1336 01/23/07,pd 03/07/05,r				67 Scr:	1030 Alpha:	Beta:	

Comments: PH <2.0 BS 2-19-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNXLR1AD-SAMP Constituent List:
Co-60 RDL:0.00E+00 pCi/L LCL: UCL: RPD: Cs-134 RDL:0.00E+00 pCi/L LCL: UCL: RPD:

2/28/2007 1:49:30 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7039543 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ManisD,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JNPEH-1-AA** J7A310377-1-SAMP 01/31/2007 09:38		3941.50g,in AmtRec: 20ML,3XLP,2X4LP	ITA6053 02/20/07 #Containers: 6					Scr:	Alpha: 3.34E-04 uCi/Sa	Beta: 1.01E-03 uCi/Sa
2 **JNXLQ-1-AA** J7B050132-1-SAMP 02/01/2007 12:16		3898.70g,in AmtRec: 20ML,2X4LP	ITA6054 02/20/07 #Containers: 3					Scr:	Alpha: -1.54E-03 uCi/Sa	Beta: 1.17E-03 uCi/Sa
3 **JNXLR-1-AE** J7B050132-2-SAMP 02/01/2007 09:01		3908.20g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	ITA6055 02/20/07 #Containers: 10					Scr:	Alpha: -3.53E-04 uCi/Sa	Beta: -1.35E-03 uCi/Sa
4 **JNXMG-1-AC** J7B050132-3-SAMP 02/01/2007 10:15		3925.80g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	ITA6056 02/20/07 #Containers: 9					Scr:	Alpha: 1.40E-03 uCi/Sa	Beta: -3.04E-04 uCi/Sa
5 **JNXN2-1-AC** J7B050154-3-SAMP 02/02/2007 09:53		3904.60g,in AmtRec: 20ML,LP,2X4LP	ITA6057 02/20/07 #Containers: 4					Scr:	Alpha: -5.79E-04 uCi/Sa	Beta: 1.85E-03 uCi/Sa
6 **JNXPG-1-AC** J7B050158-1-SAMP 02/02/2007 08:46		3877.10g,in AmtRec: 20ML,LP,2X4LP	ITA6058 02/20/07 #Containers: 4					Scr:	Alpha: 5.92E-04 uCi/Sa	Beta: -1.12E-03 uCi/Sa
7 **JNXPQ-1-AC** J7B050158-2-SAMP 02/02/2007 09:57		3851.30g,in AmtRec: 20ML,LP,2X4LP	ITA6059 02/20/07 #Containers: 4					Scr:	Alpha: 6.75E-04 uCi/Sa	Beta: -6.07E-05 uCi/Sa

2/28/2007 1:49:31 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/16/2007

Sep1 DT/Tm Tech:

Batch: 7039543 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNXPW-1-AC J7B050158-3-SAMP 02/02/2007 10:38		3872.20g,in AmtRec: 20ML,LP,2X4LP	ITA6060 02/20/07 #Containers: 4					Scr:	Alpha: 8.94E-04 uCi/Sa	Beta: 5.79E-04 uCi/Sa
9 JNXRL-1-AA J7B050162-1-SAMP 02/02/2007 11:52		3821.60g,in AmtRec: 20ML,2X4LP	ITA6061 02/20/07 #Containers: 3					Scr:	Alpha: 1.58E-03 uCi/Sa	Beta: 1.36E-04 uCi/Sa
10 JNXRL-1-AC-X J7B050162-1-DUP 02/02/2007 11:52		3770.70g,in AmtRec: 20ML,2X4LP	ITA6062 02/20/07 #Containers: 3					Scr:	Alpha: 1.58E-03 uCi/Sa	Beta: 1.36E-04 uCi/Sa
11 JNXR0-1-AC J7B050163-1-SAMP 02/02/2007 10:02		3935.10g,in AmtRec: 20ML,LP,2X4LP	ITA6063 02/20/07 #Containers: 4					Scr:	Alpha: -1.56E-04 uCi/Sa	Beta: 4.69E-05 uCi/Sa
12 JN6FC-1-AA-B J7B080000-543-BLK 02/02/2007 11:52		3997.00g,in AmtRec:	ITA6064 02/20/07 #Containers: 1					Scr:	Alpha:	Beta:
13 JN6FC-1-AC-C J7B080000-543-LCS 02/02/2007 11:52		3964.30g,in AmtRec:	ISD0730 12/20/06 #Containers: 1					Scr:	Alpha:	Beta:
14 JN6FC-2-AC-C J7B080000-543-LCS 02/02/2007 11:52		3964.3 AmtRec:	ISD0730 #Containers: 1	39.4			L5	Scr:	1214 Alpha:	3|1|07 RS Beta:

2/16/2007 9:21:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/19/2007 WO5107

Sep1 DT/Tm Tech:

Batch: 7039528 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNV4G-1-AC J7B020339-1-SAMP 02/01/2007 10:11			125.40g,in AmtRec: 20ML,500MLP,LP	125.40g #Containers: 3		60 Scr:		Alpha: -2.57E-04 uCi/Sa		Beta: 1.55E-04 uCi/Sa
2 JNV4K-1-AA J7B020339-2-SAMP 02/01/2007 10:57			124.50g,in AmtRec: 20ML,500MLP	124.50g #Containers: 2		Scr:		Alpha: -7.68E-06 uCi/Sa		Beta: -8.40E-06 uCi/Sa
3 JNXLR-1-AH J7B050132-2-SAMP 02/01/2007 09:01			125.30g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	125.30g #Containers: 10		Scr:		Alpha: -3.53E-04 uCi/Sa		Beta: -1.35E-03 uCi/Sa
4 JNXLR-1-AK-S J7B050132-2-MS 02/01/2007 09:01			124.50g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	124.50g #Containers: 10	TCSG1769 01/24/07,pd 01/10/06,r	Scr:		Alpha: -3.53E-04 uCi/Sa		Beta: -1.35E-03 uCi/Sa
5 JNXMG-1-AF J7B050132-3-SAMP 02/01/2007 10:15			125.70g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	125.70g #Containers: 9		Scr:		Alpha: 1.40E-03 uCi/Sa		Beta: -3.04E-04 uCi/Sa
6 JNXMG-1-AG-X J7B050132-3-DUP 02/01/2007 10:15			125.40g,in AmtRec: 20ML,500MLP,5XLP,3X4LP	125.40g #Containers: 9		Scr:		Alpha: 1.40E-03 uCi/Sa		Beta: -3.04E-04 uCi/Sa
7 JN6D2-1-AA-B J7B080000-528-BLK 02/01/2007 09:01			126.10g,in AmtRec:	126.10g #Containers: 1		Scr:		Alpha:		Beta:

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/19/2007

Sep1 DT/Tm Tech:

Batch: 7039528 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JN6D2-1-AC-C J7B080000-528-LCS 02/01/2007 09:01			126.10g,in	126.10g	TCSE2071 01/24/07,pd 01/10/06,r	600				
		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
9 JN6D2-1-AD-BN J7B080000-528-IBLK 02/01/2007 09:01										
		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: PH 12.0 JB 2-12-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNV4G1AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JNXLR1AK-MS:

JN6D21AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JN6D21AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JN6D21AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JNV4G1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNXLR1AK-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6D21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6D21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6D21AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/19/2007

Batch: 7039528 **pCi/L**
SEQ Batch, Test: None

Balance Id:
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Approved By _____ Date: _____

2/8/2007 3:31:10 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/19/2007 W05107

Batch: 7039533 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: JJ 1-0 Tom
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JNV3J-1-AA J7B020323-1-SAMP 02/01/2007 10:49	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha: 8.73E-05 uCi/Sa	Beta: -4.05E-05 uCi/Sa
2 JNV4G-1-AA J7B020339-1-SAMP 02/01/2007 10:11	AmtRec: 20ML,500MLP,LP	#Containers: 3				Scr:	Alpha: -2.57E-04 uCi/Sa	Beta: 1.55E-04 uCi/Sa
3 JNXNQ-1-AA J7B050153-1-SAMP 02/01/2007 09:23	AmtRec: 20ml,lp	#Containers: 2				Scr:	Alpha:	Beta:
4 JNXNT-1-AA J7B050154-1-SAMP 02/02/2007 08:59	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha:	Beta:
5 JNXN0-1-AA J7B050154-2-SAMP 02/02/2007 08:59	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha:	Beta:
6 JNXN2-1-AA J7B050154-3-SAMP 02/02/2007 09:53	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha:	Beta:
7 JNXN3-1-AA J7B050154-4-SAMP 02/02/2007 12:07	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha:	Beta:

2/8/2007 3:31:12 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/19/2007

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: JJH 0 Tm
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 7039533 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JNXPG-1-AA J7B050158-1-SAMP 02/02/2007 08:46		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
9 JNXPQ-1-AA J7B050158-2-SAMP 02/02/2007 09:57		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
10 JNXPW-1-AA J7B050158-3-SAMP 02/02/2007 10:38		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
11 JNXR0-1-AA J7B050163-1-SAMP 02/02/2007 10:02		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
12 JNXR0-1-AD-X J7B050163-1-DUP 02/02/2007 10:02		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
13 JN6ED-1-AA-B J7B080000-533-BLK 02/02/2007 10:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 JN6ED-1-AC-C J7B080000-533-LCS 02/02/2007 10:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

2/8/2007 3:31:15 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2/1-0 Tam
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/19/2007

Batch: 7039533 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JN6ED-1-AD-BX J7B080000-533-MBLK 02/02/2007 10:02	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
16 JN6ED-1-AE-CM J7B080000-533-MLCS 02/02/2007 10:02	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
17 JN6ED-1-AF-BN J7B080000-533-IBLK 02/02/2007 10:02	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
18 JN6ED-1-AG-BN J7B080000-533-IBLK 02/02/2007 10:02	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNV3J1AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20

JN6ED1AA-BLK:

H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

JN6ED1AC-LCS:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20

JN6ED1AD-MBLK:

H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/19/2007

Batch: 7039533 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 2-14-07 mm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

JN6ED1AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JN6ED1AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JN6ED1AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JNV3J1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6ED1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6ED1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6ED1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6ED1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6ED1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6ED1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

2/28/2007 4:28:00 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/19/2007

Sep1 DT/Tm Tech:

Batch: 7039534 **WATER** **ug/L** **PM, Quote: SA , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7039534 DHSS, 7039539 7YSR,

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JNVW3-1-AA** J7B020316-1-SAMP 02/01/2007 12:52	26.60g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 3.37E-04 uCi/Sa 2.7E-01L		Beta: -2.05E-04 uCi/Sa
2 **JNVW3-1-AC-S** J7B020316-1-MS 02/01/2007 12:52	24.90g,in AmtRec: 20ML,500MLP	UNSF3603 02/05/07,pd 01/23/07,r #Containers: 2				Scr: Alpha: 3.37E-04 uCi/Sa 2.7E-01L		Beta: -2.05E-04 uCi/Sa
3 **JNVW7-1-AC** J7B020316-2-SAMP 02/01/2007 12:04	25.40g,in AmtRec: 20ML,500MLP,LP	#Containers: 3				Scr: Alpha: 4.98E-04 uCi/Sa		Beta: -3.30E-04 uCi/Sa
4 **JNVW7-1-AD-X** J7B020316-2-DUP 02/01/2007 12:04	25.10g,in AmtRec: 20ML,500MLP,LP	#Containers: 3				Scr: Alpha: 4.98E-04 uCi/Sa		Beta: -3.30E-04 uCi/Sa
5 **JN6EX-1-AA-B** J7B080000-534-BLK 02/01/2007 12:52	25.00g,in AmtRec:	#Containers: 1				Scr: Alpha:		Beta:
6 **JN6EX-1-AC-C** J7B080000-534-LCS 02/01/2007 12:52	25.60g,in AmtRec:	UNSF3604 02/05/07,pd 01/23/07,r #Containers: 1				Scr: Alpha:		Beta:
7 **JN6EX-1-AD-C** J7B080000-534-LCS 02/01/2007 12:52	25.90g,in AmtRec:	UNSC1495 01/23/07,pd 04/28/06,r #Containers: 1				Scr: Alpha:		Beta:

Sample Preparation/Analysis

Balance Id:na,1120482733,1120482733,na

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/19/2007

Sep1 DT/Tm Tech:

Batch: 7039534 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JNVW31AA-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JNVW31AC-MS Constituent List:

JN6EX1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JN6EX1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JN6EX1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JNVW31AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JNVW31AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6EX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6EX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6EX1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 2/21/2006, 2/26/2007, Batch: '7039545', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7039545							
AC			**CalcC**	**BockJ**	2/16/2007 10:08:52		
SC				andersonp	IsBatched	2/8/2007 3:38:22 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/16/2007 10:08:52 AM	RICH-RC-5016 Revision 6
SC				BockJ	Prep1C	2/16/2007 10:14:32 AM	RICH-RC-5016 REVISION 6
SC				FABREM	Sep1C	2/19/2007 7:20:21 PM	RICH-RC-5010 REVISION 4
SC				FABREM	Sep2C	2/20/2007 4:08:13 PM	RICH-RC-5039 REV 5
SC				DAWKINSO	InCnt1	2/20/2007 5:35:14 PM	RICH-RD-0008 REVISION 4
SC				DAWKINSO	CalcC	2/20/2007 10:14:07 PM	RICH-RD-0008 REVISION 4
AC				**BockJ**	2/16/2007 10:14:32		
AC				**FABREM**	2/19/2007 7:20:21 PM		
AC				**FABREM**	2/20/2007 4:08:13 PM		
AC				**DAWKINSO**	2/20/2007 5:35:14 PM		
AC				**DAWKINSO**	2/20/2007 10:14:07		

AC: Accepting Entry; SC: Status Change

2/27/2007 1:30:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/27/2006, 3/4/2007, Batch: '7039539', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7039539							
AC			**CalcC**	**BockJ**	2/20/2007 12:42:22		
SC				andersonp	IsBatched	2/8/2007 3:38:22 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/20/2007 12:42:22 PM	RICH-RC-5016 Revision 6
SC				BockJ	Prep1C	2/20/2007 12:47:56 PM	RICH-RC-5016 REVISION 6
SC				HarveyK	InPrep2	2/20/2007 2:19:07 PM	RICH-RC-5086 REV2
SC				HarveyK	Sep1C	2/23/2007 8:17:34 AM	RICH-RC-5067 REV6
SC				FABREM	Sep2C	2/23/2007 4:52:53 PM	RICH-RC-5039 REV 5
SC				DAWKINSO	InCnt1	2/23/2007 6:10:46 PM	RICH-RD-0008 REVISION 4
SC				BlackCL	CalcC	2/26/2007 7:25:21 AM	RICH-RD-0008 REVISION 4
AC				**BockJ**	2/20/2007 12:47:56		
AC				**HarveyK**	2/20/2007 2:19:07 PM		
AC				**HarveyK**	2/23/2007 8:17:34		
AC				**FABREM**	2/23/2007 4:52:53 PM		
AC				**DAWKINSO**	2/23/2007 6:10:46 PM		
AC				**BlackCL**	2/26/2007 7:25:21		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa

Grp Rec Cnt: 7

ICOCFractions v4.8.26

ICOC Fraction Transfer/Status Report

ByDate: 2/27/2006, 3/4/2007, Batch: '7039532', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting		Comments
7039532						
AC			CalcC	BockJ	2/19/2007 8:40:58	
SC				andersonp	IsBatched 2/8/2007 3:32:34 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep 2/19/2007 8:40:58 AM	RICH-RC-5014 Revision 6
SC				BockJ	Prep1C 2/19/2007 8:45:54 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	InPrep2 2/26/2007 9:31:39 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	Prep2C 2/26/2007 7:20:13 PM	RICH-RC-5014 REVISION 6
SC				BlackCL	CalcC 2/27/2007 5:36:25 AM	RICH-RD-0003 REVISION 4
AC				**BockJ**	2/19/2007 8:45:54	
AC				**AshworthA**	2/26/2007 9:31:39	
AC				**AshworthA**	2/26/2007 7:20:13 PM	
AC				**BlackCL**	2/27/2007 5:36:25	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/27/2006, 3/4/2007, Batch: '7039531', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7039531							
AC			CalcC	BockJ	2/19/2007 8:36:20		
SC				andersonp	IsBatched	2/8/2007 3:32:34 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/19/2007 8:36:20 AM	RICH-RC-5014 Revision 6
SC				BockJ	Prep1C	2/19/2007 8:40:40 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	InPrep2	2/26/2007 9:31:31 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	Prep2C	2/26/2007 7:20:22 PM	RICH-RC-5014 REVISION 6
SC				DAWKINSO	CalcC	2/26/2007 10:36:49 PM	RICH-RD-0003 REVISION 4
AC				BockJ	2/19/2007 8:40:40		
AC				AshworthA	2/26/2007 9:31:31		
AC				AshworthA	2/26/2007 7:20:22 PM		
AC				DAWKINSO	2/26/2007 10:36:49		

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7039542', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7039542							
AC			**CalcC**	**BockJ**	2/16/2007 8:23:11		
SC				andersonp	IsBatched	2/8/2007 3:38:22 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/16/2007 8:23:11 AM	RICH-RC-5016 Revision 6
SC				BockJ	Prep1C	2/16/2007 8:36:48 AM	RICH-RC-5016 REVISION 6
SC				ManisD	InSep1	2/16/2007 9:13:25 AM	RICH-RC-5006 REV 6
SC				ManisD	Sep1C	2/19/2007 4:12:09 PM	RICH-RC-5006 REV 6
SC				DAWKINSO	InCnt1	2/19/2007 4:32:57 PM	RICH-RD-0007 REVISION 5
SC				DAWKINSO	Cnt1C	2/19/2007 8:52:27 PM	RICH-RD-0007 REVISION 5
SC				ManisD	Sep2C	2/26/2007 3:42:34 PM	RICH-RC-5071 REV 4
SC				DAWKINSO	InCnt2	2/26/2007 4:47:42 PM	RICH-RD-0003 REVISION 4
SC				BlackCL	CalcC	2/28/2007 7:53:38 AM	RICH-RD-0003 REVISION 4
AC				**BockJ**	2/16/2007 8:36:48		
AC				**ManisD**	2/16/2007 9:13:25		
AC				**DAWKINSO**	2/19/2007 4:32:57 PM		
AC				**DAWKINSO**	2/19/2007 8:52:27 PM		
AC				**ManisD**	2/26/2007 3:42:34 PM		
AC				**DAWKINSO**	2/26/2007 4:47:42 PM		
AC				**BlackCL**	2/28/2007 7:53:38		

AC: Accepting Entry; SC: Status Change

2/22/2007 1:18:32 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/22/2006, 2/27/2007, Batch: '7039527', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039527						
AC		**CalcC**	**BockJ**	2/19/2007 11:13:35		
SC			andersonp	IsBatched	2/8/2007 3:32:34 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/19/2007 11:13:35 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/19/2007 11:24:27 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	2/20/2007 11:18:37 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	2/21/2007 6:41:53 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	2/21/2007 8:40:42 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	2/22/2007 10:47:36 AM	RICH-RD-0007 REVISION 5
AC			**BockJ**	2/19/2007 11:24:27		
AC			**AshworthA**	2/20/2007 11:18:37		
AC			**AshworthA**	2/21/2007 6:41:53 PM		
AC			**DAWKINSO**	2/21/2007 8:40:42 PM		
AC			**StringerR**	2/22/2007 10:47:36		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 3/6/2006, 3/11/2007, Batch: '7039543', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039543						
AC		CalcC	BockJ	2/23/2007 7:03:35		
SC			andersonp	IsBatched	2/8/2007 3:38:22 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/23/2007 7:03:35 AM	RICH-RC-5017 Revision 5
SC			BockJ	Prep1C	2/23/2007 7:54:22 AM	RICH-RC-5017 REVISION 5
SC			BostedD	InSep1	2/23/2007 10:55:04 AM	RICHRC5025 REV3
SC			BostedD	Sep1C	2/26/2007 12:16:02 PM	RICHRC5025 REV3
SC			BlackCL	InCnt1	2/26/2007 12:33:48 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	2/27/2007 7:38:11 AM	RICH-RD-0007 REVISION 5
SC			StringerR	InCnt1	3/1/2007 10:29:59 AM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	3/1/2007 12:43:21 PM	RICH-RD-0007 REVISION 5
AC			**BockJ**	2/23/2007 7:54:22		
AC			**BostedD**	2/23/2007 10:55:04		
AC			**BostedD**	2/26/2007 12:16:02		
AC			**BlackCL**	2/26/2007 12:33:48		
AC			**BlackCL**	2/27/2007 7:38:11		
AC			**StringerR**	3/1/2007 10:29:59		
AC			**StringerR**	3/1/2007 12:43:21 PM		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/20/2006, 2/25/2007, Batch: '7039528', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7039528							
AC			**CalcC**	**BockJ**	2/16/2007 9:12:00		
SC				andersonp	IsBatched	2/8/2007 3:32:34 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/16/2007 9:12:00 AM	RICH-RC-5016 Revision 6
SC				BockJ	Prep1C	2/16/2007 9:21:58 AM	RICH-RC-5016 REVISION 6
SC				FABREM	Sep1C	2/19/2007 7:15:24 PM	RICH-RC-5065 REVISION 5
SC				DAWKINSO	InCnt1	2/19/2007 7:27:39 PM	RICH-RD-0001 REVISION 3
SC				BlackCL	CalcC	2/20/2007 12:18:25 PM	RICH-RD-0001 REVISION 3
AC				**BockJ**	2/16/2007 9:21:58		
AC				**BockJ**	2/16/2007 9:26:41		
AC				**FABREM**	2/19/2007 7:15:24 PM		
AC				**DAWKINSO**	2/19/2007 7:27:39 PM		
AC				**BlackCL**	2/20/2007 12:18:25		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 2/23/2006, 2/28/2007, Batch: '7039533', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039533						
AC		**CalcC**	**McDowellD**	2/21/2007 8:19:32		
SC			andersonp	IsBatched	2/8/2007 3:32:34 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	2/21/2007 8:19:32 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	2/21/2007 2:34:14 PM	RICH-RC-5007 REVISION 6
SC			StringerR	InCnt1	2/21/2007 2:45:30 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	2/23/2007 6:15:18 AM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	2/21/2007 2:34:14 PM		
AC			**StringerR**	2/21/2007 2:45:30 PM		
AC			**BlackCL**	2/23/2007 6:15:18		

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 3/1/2006, 3/6/2007, Batch: '7039534', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7039534							
AC			**Cnt1C**	**BockJ**	2/20/2007 10:50:40		
SC				andersonp	IsBatched	2/8/2007 3:38:22 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	2/20/2007 10:50:40 AM	RICH-RC-5016 Revision 6
SC				BockJ	Prep1C	2/20/2007 10:58:16 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	InPrep2	2/26/2007 10:19:13 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	Prep2C	2/27/2007 1:40:57 PM	RICH-RC-5015 REVISION 4
SC				NelsonT	Cnt1C	2/28/2007 4:58:10 PM	RICH-RC-5058 REV 7
AC				**BockJ**	2/20/2007 10:58:16		
AC				**AshworthA**	2/26/2007 10:19:13		
AC				**AshworthA**	2/27/2007 1:40:57 PM		
AC				**NelsonT**	2/28/2007 4:58:10 PM		

AC: Accepting Entry; SC: Status Change